CONTENTS

NUMBER 1

M. ATIYAH: On framings of 3-manifolds 1

C. R. STOVER: A van Kampen spectral sequence for higher homotopy groups 9

S. P. KERCKHOFF: The measure of the limit set of the handlebody group..... 27

M. T. ANDERSON: On the topology of complete manifolds of non-negative Ricci curvature 41

R. LABARCA and M. J. PACIFICO: Stability of Morse–Smale vector fields on manifolds with boundary..... 57

W. D. NEUMANN and L. RUDOLPH: Difference index of vectorfields and the enhanced Milnor number..... 83

C. BONATTI: Difféomorphismes commutants des surfaces et stabilité des fibrations en tores..... 101

NUMBER 2

J. L. HEITSCH and C. LAZAROV: A Lefschetz Theorem for foliated manifolds 127

F. LOESER et M. VAQUIÉ: Le polynôme d'Alexander d'une courbe plane projective 163

T. DE JONG: The virtual number of D_∞ points I..... 175

J. DE JONG and T. DE JONG: The virtual number of D_∞ points II 185

T. D. COCHRAN: Links with trivial Alexander's module but non-vanishing Massey products..... 189

C. BONATTI et A. HAEFLIGER: Déformations de feuilletages 205

C. BONATTI: Stabilité de feuilles compactes pour les feuilletages définis par des fibrations 231

J. HEMPEL: Branched covers over strongly amphicheiral links..... 247

NUMBER 3

S. K. DONALDSON: Polynomial invariants for smooth four-manifolds 257

R. L. COHEN and J. D. S. JONES: Algebraic K-theory of spaces and the Novikov conjecture 317

A. CONNES and H. MOSCOVICI: Cyclic cohomology, the Novikov conjecture and hyperbolic groups..... 345

NUMBER 4

LIN JINKUN: Split ring spectra and second periodicity families in stable homotopy of spheres 389

Z. FIEDOROWICZ and C. OGLE: Algebraic K-theory and configuration spaces..... 409

T. D. COCHRAN and N. HABEGGER: On the homotopy theory of simply connected four manifolds 419

C. T. C. WALL: Deformations of real singularities..... 441

J.-L. BRYLINSKI: Representations of loop groups, Dirac operators on loop space, and modular forms..... 461

M. SCHARLEMANN: Producing reducible 3-manifolds by surgery on a knot..... 481

J. MONTALDI and D. VAN STRATEN: One-forms on singular curves and the topology of real curve singularities..... 501

A. DIMCA: On the connectivity of complex affine hypersurfaces..... 511